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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 19 1922

FIELD NOTES ORIGINAL

HOMESTEAD ENTRY SURVEY NO. 602

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 15 , un-surveyed, Township 4 $\frac{1}{2}$ N , Range 30 E.
In Section 16 , un-surveyed, Township 4 $\frac{1}{2}$ N , Range 30 E.
In Section 22 , un-surveyed, Township 4 $\frac{1}{2}$ N , Range 30 E.

of the

GILA AND SALT RIVER BASE AND Meridian.

State of

ARIZONA.

Cooperative Survey.

Applicant for listing

Residence

Application No. , dated , 19

List No. , dated , 19

Applicant for survey

Residence

H. E. No. , dated , 19

Land Office

Survey executed by Thomas F. Myers, Surveyor - Forest Service, [Forest Service Title]

Under special instructions dated March 6 , 19 20

Survey commenced June 18 , 19 21

Survey completed June 18 , 19 21

Under Act of June 11, 1906, and May 31, 1920.

see page 3

OATH OF ASSISTANTS

We hereby certify that we assisted **Thomas F. Myers,**
Surveyor - Forest Service in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. 602, in the State
of ARIZONA which are represented in the following field notes
as having been surveyed by him and under his direction; and that said
survey has been in all respects, to the best of our knowledge and
belief, well and faithfully surveyed, and the corner monuments estab-
lished, according to the instructions furnished by the United States
Surveyor General for ARIZONA.

Note: It would have been
very expensive and incon-
venient to appear before an
officer to administer oaths
to Assistants; hence they
were taken by the Surveyor.

ER Lachie

Chainman

Cola P...

Chainman.

Subscribed and sworn to before me this 18th day of
June, 19 21.

Thomas F Myers

Surveyor - Forest Service.

OATH OF SURVEYOR

I, **Thomas F. Myers,** Surveyor - Forest Service,
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for Arizona, dated
March 6, 19 20, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, surveyed a tract
of land under the cooperative plan

, No. , dated , 19 , for
Listing and Patent , under the Act of June 11 , 19 06 ,
the same to be known as Homestead Entry Survey No. 602
situated within the APACHE National Forest, in
un-surveyed Section 15 , Township 4 1/2 N , Range 30 E. , and
un-surveyed Section 16 , Township 4 1/2 N , Range 30 E.
un-surveyed Section 22 , Township 4 1/2 N. , Range 30 E.

of the GILA AND SALT RIVER BASE & meridian, ARIZONA , and the
related retracements and resurveys and section subdivisions, which are
represented in the following field notes as having been surveyed by me;
and I further solemnly swear that all the corners of said survey have
been established and perpetuated in strict accordance with the stated
special instructions, and in the specific manner described in the field
notes, and that the following are the original field notes of such

Thomas F Myers

Surveyor - Forest Service.

[Forest Service Title.]

Subscribed and sworn to before me this 16th day of
May, 19 22.

Ethel G. Myers

Notary Public.



8-2349

My com. expires April 12, 1925.

HOMESTEAD ENTRY SURVEY NO. 602

APACHE NATIONAL FOREST

STATE OF ARIZONA

i.

Chains

An unlisted tract of land, surveyed under the cooperative plan, as a basis for listing and patent.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 6, 1920, and designated as Homestead Entry Survey No. 602.

Situated in what will probably be when surveyed Secs. 15, 16 and 22, T. 4-1/2 N., R. 30 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona.

Surveyed under the Acts of June 11, 1906, and May 31, 1920.

Survey commenced June 18, 1921, and executed with a Buff and Buff transit No. 10530, equipped with Smith solar attachment.

I test the adjustments of the transit and make necessary corrections.

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

June 18, 1921.

At my station near Cor. No. 7 of this survey, in Lat. 33°46'24" N., Long. 109°14' W. from Forest Service Base Map, I observe Polaris as follows: Angles read from star to E. to reference mark.

Telescope	Time	Angle Star to Mark
1st Obsn. Direct	8h. 48m. 21s. p.m.	0° 58'
Reversed	8h. 50m. 20s.	0° 57'
Mean	8h. 49m. 20s.	0° 57' 30"
Corr. to l.m.t.	16m. 56s.	
l.m.t. obsn.	8h. 32.4m.	0° 57' 30"

Chains	Telescope	Time	Angle Star to Mark
	2nd obsn. Direct	8h. 51m. 33s.	0° 57'
	Reversed	8h. 52m. 30s.	0° 56'
	Mean	8h. 52m. 01s.	0° 56' 30"
	Corr. to l.m.t.	16m. 56s.	
	l.m.t. obsn.	8h. 35.1m.	0° 56' 30"
	Greenwich m.t. U.C. Polaris, June 19, 1921,	7h. 44.5m a.m.	
	Corr. for Long.	1.2	
	L.m.t. U.C. Polaris, June 19, 1921,	7h. 43.3m a.m.	
	l.m.t. 1st. obsn. Polaris, June 18, 1921,	8h. 32.4m p.m.	
	Hour angle	11h. 10.9m.	
	Azimuth of Polaris	0°16.4' E.	
	Bearing of Reference mark	N. 1°13.9' E.	
	l.m.t. U. C. Polaris, June 19, 1921,	7h. 43.3m a.m.	
	l.m.t. 2nd obsn. Polaris, June 18, 1921,	8h. 35.1m p.m.	
	Hour angle	11h.08.2m.	
	Azimuth of Polaris	0°17.3' E.	
	Bearing of Reference mark	N. 1°13.8' E.	
	The mean bearing of reference mark as determined from the two obsns. is N. 1°13'51" E. I accept bearing of reference mark as N. 1°14' E., and to the corresponding meridian all the courses of this survey were referred by sustained angulation.		
	Note: The courses of this survey were run on an assumed azimuth and subsequently corrected to the above meridian.		

BOUNDARIES OF CLAIM

June 18, 1921.

Beginning at Cor. No. 1.

Deposit a malpais stone 8x4x2 ins., marked with a + 18 ins. in the ground, over which set a malpais stone 24x16x16 ins., chiseled + for the point and 1 HES 602 on SW. face; raise a mound of stone 2 ft. base 1-1/2 ft. high SW. of Cor., whence:

HOMESTEAD ENTRY SURVEY NO. 602

APACHE NATIONAL FOREST

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A pine 10 ins. dia. bears S. 40°46' W. 19 lks.

A pine 9 ins. dia. bears N. 17°41' W. 27 lks.

Each blazed and scribed 1 HES 602 +.BT.

The Standard Cor. of T. 5 N., Rs. 29 and 30 E.,

an old pine stake 3x2x30 ins., badly decayed

and markings illegible, laying in mound of

stone, witnessed as described by the Surveyor

General. I restore Cor. as follows: At the

same point I deposit a piece of broken glass

16 ins. in ground, over which set a malpais

stone 26x16x6 ins., chiseled SC on N. face

and 6 grooves on N., E. and W. faces, sur-

rounded by mound of stone. The above stan-

dard Cor. bears N. 33°29'48" E, 13.97 chs.

distant from Cor. No. 1 of this survey by

traverse which appears at the end of these

notes.

Lat. 33°46'17" N., Long. 109°13'40" W. from Forest

Service Base Map.

Mag. decl. at 8 a.m. 13°40' E. Mean mag. decl.

13°36' E.

Thence S. 36°39' E.

Descend 28. ft. over gradual SSE. slope through scat-
tering pine.

12.50 Arroyo 30 lks. wide, 4 ft. deep, course S. Ascend
20 ft. over rocky SW. slope.

20.00 Top ascent on rocky spur, bears S. Descend 18 ft.
over rocky SE. slope.

30.60 Arroyo 20 lks. wide, 2 ft. deep, course SW. Ascend,
5 ft. to Cor. over rocky NW. slope.

32.65 To Cor. No. 2.

Deposit a malpais stone 6x4x6 ins., marked with a +

20 ins. in the ground, over which set a malpais stone

Chains

26x15x4 ins., chiseled + for the point and 2 HES 602 on W. face; raise a mound of stone 2 ft. base 1-1/2 ft. high W. of Cor., whence:

A pine 10 ins. dia. brs. N. 50°40' E. 191 lks.

A pine 8 ins. dia. brs. S. 30°57' E. 158 lks.

Each blazed and scribed 2 HES 602 + BT.

Thence S. 42°39' W.

Over open land along foot of SW. slope.

5.01 To Cor. No. 3.

Deposit a malpais stone 2x4x6 ins., marked with a + .22 ins. in the ground, over which set a malpais stone 30x12x9 ins. chiseled + for the point and 3 HES 602 on NW. face; raise a mound of stone 2 ft. base 1-1/2 ft. high NW. of Cor., whence:

A pine 36 ins. dia. brs. S. 86°00' E. 169 lks.

A pine 36 ins. dia. brs. S. 0°49' E. 9 lks.

Each blazed and scribed 3 HES 602 + BT.

Cor. No. 1 of HES. 598 (established by me on June 19, 1921), a malpais stone 22x12x12 ins. above ground, marked + on top and 1 HES 598 on SE. face, with mound of stone 3 ft. base 2 ft. high SE. of Cor. brs. S. 11°14'50" W. 46.66 chs. by traverse which appears at the end of these notes.

Thence N. 49°12' W.

Over open land.

2.60 E. Fork of Campbell Blue Creek (dry), 25 lks. wide,

banks 2 ft. high, Course S.

Ascend 10 ft. over NE. slope, through scattering pine and oak brush.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

13.02

To Cor. No. 4.

Deposit a malpais stone 1x5x7 ins., marked with a + 14 ins. in the ground, over which set a malpais stone 24x11x12 ins., chiseled + for the point and 4 HES 602 on NE. face; raise a mound of stone 2 ft. base 1-1/2 ft. high NE. of Cor., whence:

A pine 13 ins. dia. brs. S. 76°08' W. 56 lks.

A pine 8 ins. dia. brs. S. 25°30' E. 42 lks.

Each blazed and scribed 4 HES 602 + BT.

Thence N. 80°35' W.

Ascend 20 ft. over N. slope, through edge of scattering pine. Fence inside of line.

5.50

Top of ascent, thence over open level land.

35.14

To Cor. No. 5.

Deposit a malpais stone 8x6x6 ins., marked with a + 20 ins. in the ground, over which set a malpais stone 26x11x10 ins. chiseled + for the point and 5 HES 602 on NE. face; raise a mound of stone 2 ft. base 1-1/2 ft. high NE. of Cor., whence:

A pine 30 ins. dia. brs. S. 33°30' W. 45 lks.

A pine 10 ins. dia. brs. N. 73°20' W. 73 lks.

Each blazed and scribed 5 HES 602 + BT.

Thence N. 14°51' W.

Over open land. Fence inside of line.

14.09

To Cor. No. 6.

Deposit a malpais stone 6x4x6 ins., marked with a + 20 ins. in the ground, over which set a malpais stone 26x12x8 ins. chiseled + for the point and 6 HES 602 on E. face; raise a mound of stone 2 ft. base 1-1/2 ft. high E. of Cor., whence:

HOMESTEAD ENTRY SURVEY NO. 602

APACHE NATIONAL FOREST

6.

STATE OF ARIZONA

Chains

A pine 16 ins. dia. brs. S. 65°50' W. 72 lks.
A pine 14 ins. dia. brs. N. 20°50' W. 107 lks.
Each blazed and scribed 6 HES 602 + BT.

Thence N. 48°58' E.

Through edge of scattering pine over level land. Fence
inside of line.

10.62 Begin descent of 16 ft. over rocky N. slope, through
scattering pine.

12.00 Bottom of descent, thence over open bottom land.

13.65 E. Fork of Campbell Blue Creek (dry) 40 lks. wide,
banks 4 ft. high, course ESE., thence over bottom land.

16.00 Leave bottom land and ascend 15 ft. over rocky S. slope.

17.35 To Cor. No. 7.

Deposit a malpais stone 8x4x5 ins., marked with a + 16
ins. in the ground, over which set a malpais stone
30x16x10 ins., chiseled + for the point and 7 HES 602
on S. face; raise a mound of stone 3 ft. base 2 ft.
high S. of Cor., whence:

A pine 9 ins. dia. brs. N. 32°39' E. 108 lks.

A pine 7 ins. dia. brs. N. 8°45' W. 89 lks.

Each blazed and scribed 7 HES 602 + BT.

Thence S. 63°38' E.

Along South slope through scattering pine.

21.17 To Cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 90.32 acres

IMPROVEMENTS

The improvements made upon and for the benefit of this

Chains

claim consist of about 1-1/2 miles of wire fencing. The claim at the time of survey was occupied by Benjamin R. Tenney, who was then living in a tent.

DESCRIPTION

This claim is situated on the E. Fork of Campbell Blue Creek and is comprised mainly of open parks and low flat S. of the creek and bottom land along the creek. The soil on the bottom land is a rich black loam of good depth and very fertile. The open park on the western portion of the claim is strewn with malpais boulders and the soil is probably shallow. On the central portion ^{it is} ~~they are~~ generally free from boulders and the soil appears to be of fair depth. Approximately 60 per cent of the area is suitable for agricultural purposes, of which about 5 acres along the creek bottom had been plowed.

The rainfall is depended upon to grow crops.

Water for domestic use is obtained from a small spring in Campbell Blue Creek.

There is no timber of commercial value on the claim.

I saw no indications of mineral.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. HES 598, surveyed by me on June 19, 1921, lies about 5/8 mile to the south.

Alpine, Arizona, the nearest settlement and postoffice, lies about 11 miles to NE by trail.

Chains

TRAVERSES

Boundaries of Claim.

Course	Dist.	N.	S.	E.	W.
S. 36°39' E.	32.65		26.20	19.49	
S. 42°39' W.	5.01		3.68		3.39
N. 49°12' W.	13.02	8.51			9.86
N. 80°35' W.	35.14	5.75			34.67
N. 14°51' W.	14.09	13.62			3.61
N. 48°58' E.	17.35	11.39		13.09	
S. 63°38' E.	21.17		9.40	18.97	
	<u>138.43</u>	39.27	39.28	51.55	51.53
Error in Lat. & Dep.		01			02

Closing error 1/6191

Tie Cor. 3/602 to Cor. 1/598

Course	Dist.	N.	S.	E.	W.
S. 78°23' W.	4.82		.97		4.72
S. 4°22' W.	15.02		14.98		1.14
S. 0°36' E.	8.93		8.93	.09	
S. 70°37' W.	2.55		.85		2.41
S. 2°37' W.	20.05		20.03		.92
			<u>45.76</u>	.09	9.19
					.09
Resultant Course	S. 11°14'50" W.				9.10

Tie Cor. 1 to S.C. T. 5 N., Rs. 29 and 30 E.

N. 23°00' E.	2.75	2.53		1.07	
N. 25°47' E.	9.06	8.16		3.94	
N. 70°24' E.	2.87	.96		2.70	
		<u>11.65</u>		7.71	

Resultant Course N. 33°29'48" E. 13.97 chs. dist.

Survey completed June 18, 1921.

Thomas J. Myers
Surveyor - Forest Service.

DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.

The corrections for balancing fallings should be proportional to the lengths of the lines.

3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 602, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	S. 36°39' E.	32.65		26 20	19 49 ⁸		83 60			21 90	32
2 - 3	S. 42°39' W.	5.01		3 68		3 39	99 69			76 6	86
3 - 4	N. 49°12' W.	13.02	8 51			9 86	86 44	735 60			
4 - 5	N. 80°35' W.	35.14	5 75 ⁶			34 67 ⁸	41 90	241 34			
5 - 6	N. 14°51' W.	14.09	13 62			3 61	3 61	49 17			
6 - 7	N. 48°58' E.	17.35	11 39		13 09		13 09	149 10			
7 - 1	S. 63°38' E.	21.17		9 40	18 97		45 15			424 41	
		138.43	39 27 ⁸	39 28	51 55 ⁴	51 53 ⁴		1175 21		2981 59	
Error in Lat. & Dep.			01			02				1175 21	
Closing error	1/6191									20/ 1806 38	
										90.32 acres	

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 20, 1922

The foregoing field notes of Homestead Entry Survey No.

602

executed by *Thomas F. Myers, Surveyor* [Forest Service Title.]
under his special instructions, dated *March 6*, 1920, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

Frank P. Trott
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the
above-described survey in the State of *Arizona*, has been
correctly copied from the original notes on file in this office.

FRANK P. TROTT
U. S. Surveyor General.